National Institute of Environmental Health Sciences

Mitigation of climate change and the potential reduction in global health impact of particulate air pollution from coal fired power station

Author(s):	Hales S, Gohlke J, Pruess-Ustun A, Campbell-Lendrum D, Woodward A
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Abstract:

We use the Greenhouse gas – Air Pollution Interactions and Synergies (GAINS) integrated assessment model (Amman et al, 2008a; 2008b) to estimate air pollutant emissions from coal fired power plants, consequent human exposure to particulate matter (PM) and the potential life shortening effect of this exposure. Following other researchers, the health impact estimate adopted in this paper is the loss of life expectancy associated with long term exposure to fine particle exposure (PM).

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Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution

Air Pollution: Particulate Matter, Other Air Pollution

Air Pollution (other): aerosols

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Global or Unspecified

Health Co-Benefit/Co–Harm (Adaption/Mitigation):

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact:

specification of health effect or disease related to climate change exposure

Morbidity/Mortality

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Mitigation

Model/Methodology:

type of model used or methodology development is a focus of resource

Exposure Change Prediction, Outcome Change Prediction

Resource Type:

format or standard characteristic of resource

Research Article

Timescale:

time period studied

Medium-Term (10-50 years)